



## Synonym

CGRPR & RAMP1

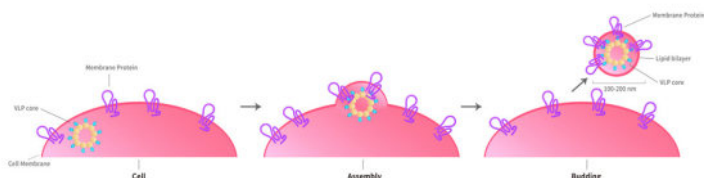
## Source

Human CGRPR&RAMP1 Full Length Heterodimer Protein (VLP)(CG1-H52P6) is expressed from human 293 cells (HEK293). It contains AA Glu 23 - Asn 461 (CGRPR) & Cys 27 - Val 148 (RAMP1) (Accession # [Q16602-1](#) (CGRPR) & [O60894-1](#) (RAMP1)).

Predicted N-terminus: Asp & Trp

## Molecular Characterization

Virus-like particles(VLPs) are formed by self-assembly of envelop/capsid proteins from viruses. Membrane Proteins can be constituted in-situ with VLPs produced from HEK293 cell cultures. These VLPs concentrate conformationally intact membrane proteins directly on the cell surface and produce soluble, high-concentration proteins perfect for immunization and antibody screening.



The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells in vivo and surface attachment for phage display.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

\*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## Formulation

*The VLPs are highly immunogenic, so the immunization strategy should be optimized (antigen dose, regimen and adjuvant).*

Supplied as 0.2 µm filtered solution in PBS, Arginine, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

## Storage

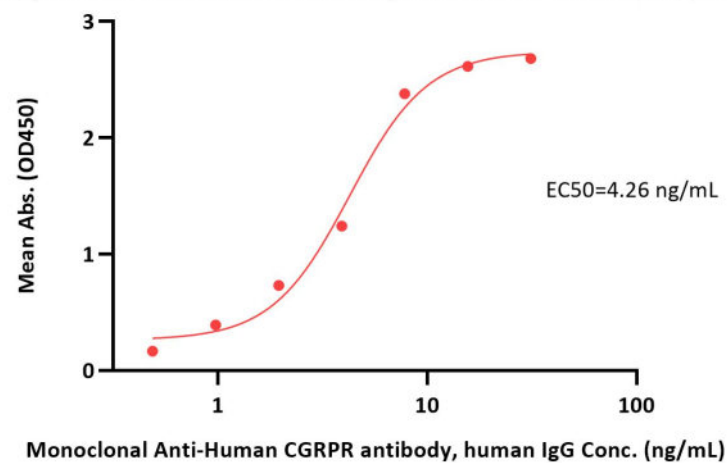
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

## Bioactivity-ELISA

Human CGRPR&RAMP1 Full Length Heterodimer Protein (VLP) ELISA  
0.5 µg of Human CGRPR&RAMP1 Full Length Heterodimer Protein (VLP) per well



Immobilized Human CGRPR&RAMP1 Full Length Heterodimer Protein (VLP) (Cat. No. CG1-H52P6) at 5 µg/mL (100 µL/well) can bind

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# Human CGRPR&RAMP1 Full Length Heterodimer Protein (VLP)

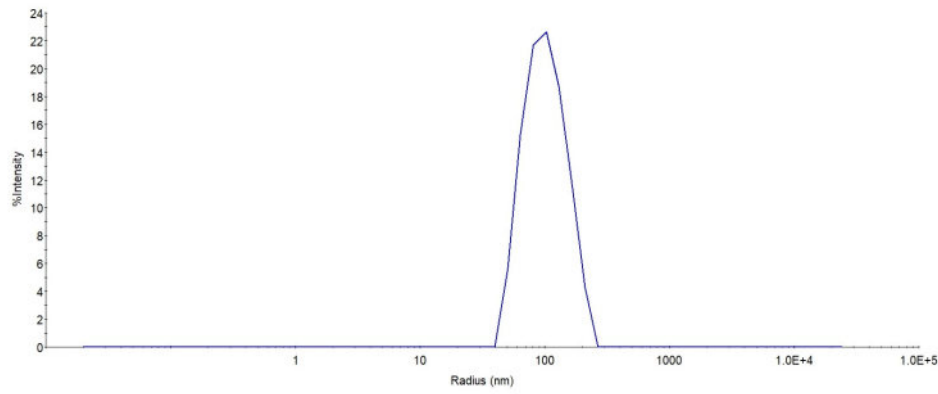
Catalog # CG1-H52P6



BIOSYSTEMS  
**Acro**  
Surprise Inside!

Monoclonal Anti-Human CGRPR antibody, human IgG with a linear range of 0.5-8 ng/mL (QC tested).

## Identity-DLS



The mean peak Radius of VLP is 95-120 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

## Background

This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katacalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator and as an antimicrobial peptide while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.

## Clinical and Translational Updates

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